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1.0 Purpose & Scope

This document describes the program the SHSD Industrial Hygiene Group uses to track changes in legal requirements to ensure that BNL and SHSD Industrial Hygiene Group policies and documents remain in compliance with applicable requirements. The program is also intended to identify new requirements or changes at the proposal level before they are implemented, so that the Laboratory can plan for potential impacts. This procedure supplements the Laboratory's *Requirements Management System* described in SBMS.

The scope of this procedure applies to requirements (drivers) and best management proactive documents found in:

- DOE regulations, Orders, Notices, and Guides
- OSHA worker health and safety regulations,
- DOE mandated ANSI standards,
- ANSI standards incorporated by reference in OSGA regulations,
- ANSI standards used by BNL as best management practices,
- DOE mandated ACGIH Threshold Limit Values®,
- DHHS Etiological Agent requirements,
- EPA Asbestos regulations,

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- Suffolk County Department of Health sanitation standards, and
- Other applicable drivers as appropriate.

2.0 Responsibilities

This procedure is administered through the SHSD Industrial Hygiene Group.

- 2.1 The IH Group Leader is responsible to:
 - Assign IH staff to conduct operations covered by this program.
 - Ensure that IH Staff follow the policies of this program.
- 2.2 The IH Group Subject Matter Experts, SBMS Subject Area Point of Contacts, and IH Program Administrators (SMEs) are responsible to:
 - Maintain up to date information regarding changes to regulations.
 - Review proposed changes to regulations for potential impact to Laboratory operations.
 - Apprise the Laboratory management and Departments/Divisions of the impact of requirement changes.
 - Complete the notifications and documentation as required by the Requirements Management Subject Area.
 - Initiate changes in Subject Areas and SHSD IHG level procedures, as necessary.

3.0 <u>Definitions</u>

- 3.1 **External Requirements Document**: Any federal, state, or local law or regulation; DOE Directive; or other document that imposes requirements upon the Laboratory. An example is an OSHA regulation. Other documents include Executive Orders and the BSA Prime Contract.
- 3.2 **Record of Decision (ROD):** The documentation that illustrates how an external requirement document is being implemented at the Laboratory (described in the SBMS requirements management process).

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3.3 **Subject Matter Expert (SME):** For this SOP, the title SME refers to the roles of SBMS Subject Area Subject Matter Expert, SBMS Point of Contact (POC) and IH Group Program Administrator. The SME is the individual assigned prime responsibility for maintaining expertise in one or more Industrial Hygiene topical areas.

- 4.0 <u>Prerequisites</u> none
- 5.0 **Precautions** none

6.0 Procedure

- 6.1 Equipment: computer and the internet
- 6.2 The IH Program SME periodically (at least quarterly) reviews governmental agency websites and other resources for proposed or enacted changes to applicable drivers. At a minimum, the IH group accesses the appropriate sources for the drivers listed in Attachment 9.1. SMEs can also keep apprised of pending legislation through workgroups, listservs, Federal and State registers and publications.
- 6.3 SME notifies the SBMS Office of any pending requirement changes that could potentially affect Laboratory operations. When a regulatory driver changes, the SME reviews the requirement for impact on BNL operations. The SME documents this review using the *External Requirements Document Record of Decision Form* found on the SBMS site at https://sbms.bnl.gov/standard/02/0201e011.doc. The SME maintain copies of appropriate documents in the Industrial Hygiene program files.

NOTE: The SBMS Office may notify the appropriate Management System Steward of the pending or proposed regulatory changes or new requirements that may impact Laboratory operations. The Management System Steward forwards the requirement to the SME for review.

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- 6.4 The IH Group's program SME initiates changes in Subject Areas, training material, or SHSD procedures, if needed, so that the Laboratory achieves compliance with the new or changed requirements.
- 6.5 The IH Group distributes needed guidance information to affected Department or Division if requirement changes impact Laboratory operations. The IH Group provides technical assistance to the line organization in the implementation of any new regulatory requirements and/or interpretation of the requirements as they pertain to the line.
- 6.6 If BNL needs to implement corrective action(s), the SME identifies the responsibility to the line organization(s) and enters Corrective into the appropriate of the BNL ATS or SHSD FATS.

7.0 Implementation and Training

7.1 **Qualification Criteria:** The IH Group Leader will instruct all appropriate IH Group staff in their role relative to this procedure and will assign person(s) with technical knowledge and computer experience to conduct the periodic requirement reviews. Qualification is documented using Attachment 9.2. Re-qualification is required on a three year basis.

8.0 <u>References</u>

- 8.1 BNL SBMS Requirements Management Subject Area
- 8.2 BNL SBMS Laboratory-Wide Procedures and Guidelines Subject Area
- 8.3 BNL SBMS Internal Controlled Documents Subject Area

9.0 Attachments

- 9.1 SHSD Industrial Hygiene Group- Regulatory Driver List
- 9.2 SHSD Industrial Hygiene Group- Qualification form.

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9.3 Periodic Regulatory Driver Survey

format. Added Attachment 9.3 Periodic Review form.

(signature/date on file) R. Selvey 11/01/05 SME Reviewer/Date:

10.0 <u>Documentation</u>

Document Development and Revision Control Tracking				
PREPARED BY: (signature and date on file)	REVIEWED BY: (signature and date on file)	APPROVED BY: (signature and date on file)		
R. Selvey	J. Peters	R. Selvey		
Date 07/16/04	Date 07/19/04	IH Manager		
		Date 07/20/04		
ESH Coordinator/ Date:	Work Coordinator/ Date:	SHSD Manager / Date		
none	none	none		
QA Representative / Date:	Training Coordinator / Date:	Filing Code:		
none	none	IH52		
Facility Support Rep. / Date:	Environ. Compliance Rep. / Date:	Effective Date:		
none	none	07/20/04		
ISM Review - Hazard Categorization ☐ High ☑ Moderate ☐ Low/Skill of the craft	Validation: ☐ Formal Walkthrough ☐ Desk Top Review ☐ SME Review Name / Date:	Implementation: Training Completed: Tracked in BTMS Procedure posted on Web: 11/01/05 Hard Copy files updated: 11/01/05		
Revision Log				
Purpose: Temporary Change Chang	e in Scope 🗌 Periodic review 🛚 Clarify/en	hance procedural controls		
Changed resulting from: ☐ Environmental impacts ☐ Federal, State and/or Local requirements ☐ Corrective/preventive actions to non-conformances ☒ none of the above				
Section/page and Description of change: Changes to Section 6 to streamline the wording and improve clarity of actions. Updated Modified Attachment 9.1 to remove non essential entries and clarify BMP and Regulatory entries. Modified Section 10 to new				

Reviewer/Date:

Reviewer/Date:

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Attachment 1:

Industrial Hygiene Regulatory Drivers

Document	Title		R/B
10 CFR 850	Chronic Beryllium Disease Prevention Program		R
29 CFR 1910	Labor/Occupational Safety and Health Standards		R
1910.120 Hazardous waste operations and emergency resp 1910.133 Eye and face protection. 1910.134 Respiratory protection. 1910.135 Head protection. 1910.136 Foot protection. 1910.138 Hand protection. 1910.141 Sanitation. 1910.146 Permit-required confined spaces. 1910.151 Medical services and first aid. 1910.1000 Air contaminants. 1910.1001 Asbestos. 1910.1002 Coal tar pitch volatiles; interpretation of term. 1910.1003 13 Carcinogens (4-Nitrobiphenyl, etc.). 1910.100 alpha-Naphthylamine. 1910.1017 Vinyl chloride. 1910.1018 Inorganic arsenic. 1910.1020 Access to employe exposure and medical records.		1910.1025 Lead. 1910.1027 Cadmium. 1910.1028 Benzene. 1910.1030 Bloodborne pathogens. 1910.1043 Cotton dust. 1910.1044 1,2-dibromo-3-chloropropane. 1910.1045 Acrylonitrile. 1910.1047 Ethylene oxide. 1910.1048 Formaldehyde. 1910.1050 Methylenedianiline. 1910.1051 A.3-Butadiene. 1910.1052 Methylene Chloride. 1910.1096 Ionizing radiation. 1910.1200 Hazard communication. 1910.1450 Occupational exposure to hazardous of in laboratories.	chemicals
29 CFR 1926	Labor/Safety and Health Regulations for Construction		R
40 CFR 61 - Subpart A	National Emissions Standards for Hazardous Air Pollutants (NESHAPS)		R
42 CFR 72	Interstate Shipment of Etiologic Agents		R
5480.4 Change 3	Industrial Hygiene Protection, Safety and Health Protection Standards		R
O 440.1A	CRD - Worker Protection Management for DOE Contractor Employees		R
M 231.1-1 Change 2	Environment, Safety and Health Reporting Manual		R
N 450.7	CRD - The Safe Handling, Transfer, and Receipt of Biological Etiological Agents at Department of Energy Facilities		R
ACGIH TLVs	Threshold Limit Values for Chemical Substances and Physical Agents		R
ANSI Z 136.1	Safe Use of Lasers		R
ANSI Z 88.2	Respiratory Protection		R

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ANSI C95.1	Safety Levels with Respect to Human Exposure to Radiofrequency Electromagnetic Fields RF (200kHz - 100Ghz)	В
ANSI Z 4.1	Requirements for Sanitation	В
NYS Code Rule 12 NYS 56	Asbestos	В
SCSC	Suffolk County Sanitation Code	В
ANSI Z10.	Occupational Health and Safety Management Systems	В
BS1 18001	Occupational Health and Safety Assessment Series	В

B = Best Management Practice

R = Regulatory or Contract Requirement



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Environmental, Safety, Health & Quality Directorate SHSD Industrial Hygiene Group IH 50700 Attachment 9.2

IH Requirements Management

Job Performance Measure (JPM) Completion Certificate

Candidate's Name		Life Nu	Life Number:		
Practical Skill Evaluation: Criteria	Demonstration of Evaluation Methodology by Oral Exam	Unsat.	Recov.	Satisf.	
Criteria	Qualifying Performance Standard		1100011	- Causii	
Finding Requirement Changes	Demonstrates knowledge in how to periodically review appropriate sources: internet, governmental agency websites, and other resources (including personal contacts), workgroups, listservs, federal and state register publications.				
BNL Change Management Process	Demonstrates knowledge of the SBMS Office process for conducting requirement changes.				
BNL Level Documentation	Demonstrates knowledge in initiating and leading change in Subject Areas if needed.				
Site-wide Action	Demonstrates knowledge in initiating and leading general laboratory distribution of notifications of changes. Understands the process of getting entries entered into the BNL ATS or SHSD FATS.				
IH Group level policy and procedures	Demonstrates knowledge in making any necessary changes to SHSD IHG level programs or activities.				
Record keeping	Demonstrates knowledge in documenting corrective actions submitted to the SBMS Office using the External Requirements Document Record of Decision Form. Understands the need to send a copy of all documents generated as a result of this procedure to SBMS. Understands need to and where to maintain copies in the Program Administrator section of the Industrial Hygiene Group Leader's files.				
accept the responsibility for SOP. Candidate Signature:	or performing this task as demonstrated within this JPM and th	e corre	spondir	ng	
certify the candidate has sthe task unsupervised. Evaluator Signature:	eatisfactorily performed each of the above listed steps and is ca	apable	of perfo	orming	

JPM Form (Preparation Date: Rev0 07/2004)



IH50700 Attachment 9.3 Industrial Hygiene Requirement Management

Periodic Regulatory Driver Survey

Date:		Review By:		
Document	Requirement Title	Source that was reviewed	Current Date that is in effect	Change Y/N
10 CFR 850	Chronic Beryllium Disease Prevention Program	☐ CFR Search		
29 CFR 1910	Labor/Occupational Safety and Health Standards	☑ CFR Search		
29 CFR 1926	Labor/Safety and Health Regulations for Construction	☑ CFR Search		
40 CFR 61 - Subpart A	National Emissions Sta Hazardous Air Pollutar	ample		
40 CFR 763	Protection of the Environ	_		
42 CFR 72	Interstate Shipment of Etiologic Agents	☐ CFR Search		
5480.4 Change 3	Industrial Hygiene Protection, Safety and Health Protection Standards	☐ DOE Web site		
M 231.1-1 Change 2	Environment, Safety and Health Reporting Manual	☐ DOE Web site		
O 440.1A	CRD - Worker Protection Management for DOE Contractor Employees	☐ DOE Web site		
N 450.7	CRD - The Safe Handling, Transfer, and Receipt of Biological Etiological Agents at Department of Energy Facilities	☐ DOE Web site		
ACGIH TLVs	Threshold Limit Values for Chemical Substances and Physical Agents	☐ ACGIH Web site		
ANSI/ASHRAE Std 62	Ventilation for Acceptable Indoor Air Quality	☐ ANSI Web site		
ANSI C95	Safety Levels with Respect to Human Exposure to Radiofrequency Electromagnetic Fields RF (200kHz - 100Ghz)	☐ ANSI Web site		
ANSI Z 136.1	Safe Use of Lasers	☐ ANSI Web site		
ANSI Z 88.2	Respiratory Protection	☐ ANSI Web site		
ANSI Z 4.1-68	Requirements for Sanitation	☐ ANSI Web site		
SCSC	Suffolk County Sanitation Code	☐ Suffolk County Web site		
Record of actions	s needed: 			
				-